



STATE OF ALASKA
DEPARTMENT OF
COMMERCE
COMMUNITY AND
ECONOMIC DEVELOPMENT

Mike Dunleavy, Governor
Julie Anderson, Commissioner
Robert M. Pickett, Chairman

Regulatory Commission of Alaska

April 26, 2021

In reply refer to: Tariff Section
Files: TA503-8, TA383-121
LO#: L2100145

Lee Thibert
Chief Executive Officer
Chugach Electric Association, Inc.
P.O. Box 196300
Anchorage, AK 99519-6300

Dear Mr. Thibert:

Chugach Electric Association, Inc. (Chugach) filed TA503-8 on March 15, 2021, seeking to update its Generation and Transmission Line Loss Factor calculation based on 2020 operating results. In addition, Chugach filed TA383-121 on March 15, 2021, seeking to add the Generation and Transmission Line Loss Factor calculation to the North District tariff. On April 23, 2021, the Regulatory Commission of Alaska (Commission) approved Tariff Sheet Nos. 103.4 and 103.5, filed March 15, 2021, by Chugach with TA503-8. In addition, the Commission approved Tariff Sheet Nos. 122 and 123, filed March 15, 2021, by Chugach with TA383-121. The effective date of the tariff sheets is May 1, 2021.

Enclosed are validated copies of the approved tariff sheets.

BY DIRECTION OF THE COMMISSION

Sincerely,

REGULATORY COMMISSION OF ALASKA

Becki Alvey (Apr 26, 2021 08:58 AKDT)

Becki Alvey
Tariff Section Manager

Enclosures

cc: Arthur Miller
Executive Vice President, Regulatory and External Affairs
P.O. Box 196300
Anchorage, AK 99519

RCA NO.: 8 18th Revision Sheet No. 103.4



Canceling

17th Revision Sheet No. 103.4

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MAR 15 2021

STATE OF ALASKA
REGULATORY COMMISSION OF ALASKA

Chugach Electric Association, Inc.

CALCULATION OF CHUGACH G&T LOSSES
2020 Test Year

Description	Q1-20	Q2-20	Q3-20	Q4-20	Total	
<u>Energy Entering System</u>						
Beluga Power Plant	5,068.8	6,098.5	2,648.3	8,109.7	21,925.4	
IGT Power Plant	359.4	17.7	13.0	44.3	434.3	
Fire Island Wind (IGT Bkr 532)	12,816.2	10,398.1	8,563.8	14,183.7	45,961.8	
Southcentral Power Project	329,489.9	248,508.1	289,659.8	282,723.5	1,150,381.3	
Plant 1	1,382.0	2,068.8	1,825.1	4,076.3	9,352.2	N
Plant 2	4,771.3	2,810.8	1,124.5	904.4	9,611.0	N
Plant 2A	130,766.5	97,915.7	84,036.6	152,548.1	465,266.8	N
Quartz Creek Substation	130,654.6	97,726.5	89,970.9	94,902.9	413,254.9	
Teeland Substation	22,644.4	19,018.7	23,672.2	42,379.9	107,715.2	
University Substation Bkr 152	852.6	0.0	17,921.6	21,145.0	39,919.2	
Douglas Substation	0.0	0.0	0.0	0.0	0.0	
Cooper Lake Power Plant	20,303.1	12,620.7	10,398.5	18,472.1	61,794.4	
Eklutna Hydro Electric Power Plant	37,483.4	33,341.6	30,821.1	42,780.2	144,426.3	N
Total Energy Entering System	696,592.3	530,525.1	560,655.4	682,270.1	2,470,042.9	
<u>Energy Leaving System</u>						
Quartz Creek Substation	0.1	11.0	0.0	2.4	13.5	
Daves Creek Substation	16,123.7	13,150.2	13,482.2	14,226.2	56,982.3	
Douglas Substation	50,521.0	25,371.2	30,450.2	53,334.5	159,676.8	
Teeland Substation	22,644.4	19,018.7	23,672.2	42,379.9	107,715.2	
University Substation Bkr 152	13,843.1	21,454.5	12,754.6	9,007.9	57,060.1	
Power Plant Station Service Totals	18,404.1	14,945.0	15,549.3	15,952.8	64,851.2	
South - Distribution Substation Deliveries	312,470.5	242,116.3	247,337.5	297,981.4	1,099,905.8	T
North - Distribution Substation Deliveries	246,558.1	182,656.5	210,991.7	236,034.0	876,240.3	N
Total Energy Leaving System	680,564.9	518,723.4	554,237.8	668,919.0	2,422,445.2	
Gross Energy Losses	16,027.4	11,801.7	6,417.6	13,351.0	47,597.7	
Less Transformer Losses	1,331.5	1,331.5	1,331.5	1,331.5	5,325.8	
Net G&T Losses	14,695.9	10,470.3	5,086.1	12,019.6	42,271.9	

Tariff Advice No.: 503-8

Effective: May 1, 2021

Chugach Electric Association, Inc.
P.O. Box 196300 Anchorage, Alaska 99519-6300

RCA NO.: 8 18th Revision Sheet No. 103.5



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17th Revision Sheet No. 103.5

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STATE OF ALASKA
REGULATORY COMMISSION OF ALASKA

Chugach Electric Association, Inc.

CALCULATION OF CHUGACH G&T LOSSES
2020 Test Year ¹

Description	Q1-20	Q2-20	Q3-20	Q4-20	Total	
Chugach Retail Distribution Losses						
Retail Receipts at Transmission Substation	559,028.6	424,772.8	458,329.3	534,015.4	1,976,146.1	
Less: Chugach House Power	2,459.9	1,723.7	1,688.6	2,554.1	8,426.2	
Net Receipts	556,568.7	423,049.1	456,640.7	531,461.3	1,967,719.9	
Retail Sales at Delivery ²	534,689.7	405,808.6	437,441.7	515,039.6	1,892,979.5	T
Losses	21,879.1	17,240.5	19,199.1	16,421.7	74,740.4	
Add: 1/2 House Power	1,229.9	861.9	844.3	1,277.0	4,213.1	
Adj. Retail Dist. Losses	23,109.0	18,102.4	20,043.3	17,698.7	78,953.5	
At Delivery	4.322%	4.461%	4.582%	3.436%	4.171%	
At Transmission Substation	4.152%	4.279%	4.389%	3.330%	4.012%	
Adjustment of G&T Losses for House Power						
G&T Deliveries	575,152.3	438,096.9	471,811.2	548,241.5	2,033,301.9	
Net G&T Losses	14,695.9	10,470.3	5,086.1	12,019.6	42,271.9	
Add: 1/2 House Power	1,229.9	861.9	844.3	1,277.0	4,213.1	
Adjusted G&T Losses	15,925.8	11,332.1	5,930.4	13,296.6	46,485.0	
At Delivery	2.769%	2.587%	1.257%	2.425%	2.286%	R
At Generation	2.694%	2.521%	1.241%	2.368%	2.235%	R

¹ G&T loss factor effective for the allocation of actual costs beginning January 1, 2021.

² Former Municipal Light & Power 2020 reported retail sales for months January through October were normalized to adjust for calendar month sales.

RCA NO.: 121 Original Sheet No. 122



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Sheet No. 122

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REGULATORY COMMISSION OF ALASKA

Chugach Electric Association, Inc.

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2020 Test Year

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Tariff Advice No.: 383-121

Effective: May 1, 2021

Chugach Electric Association, Inc.
P.O. Box 196300 Anchorage, Alaska 99519-6300

RCA NO.: 121 Original 123 Sheet No. 123



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REGULATORY COMMISSION OF ALASKA

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